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| FORM PTO-1390<br>(REV. 11-2000)  |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |  | DT02 Rec'd PCT/PTO 08 OCT 2004   |  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>         DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>         CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  |   |  | ATTORNEY DOCKET NUMBER<br><div style="text-align: center; font-weight: bold;">24741-1536</div>   |  |
|  |  |   |  | U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><div style="text-align: center; font-size: 1.5em; font-weight: bold;">10/510655</div> |  |
| INTERNATIONAL APPLICATION NO.<br><div style="text-align: center; font-weight: bold;">PCT/EP03/04103</div>  |  | INTERNATIONAL FILING DATE<br><div style="text-align: center; font-weight: bold;">17 April 2003 (17.04.03)</div> |  | PRIORITY DATE CLAIMED<br><div style="text-align: center; font-weight: bold;">22 April 2002 (22.04.02)</div>                              |  |
| TITLE OF INVENTION<br><div style="text-align: center; font-weight: bold;">MICROPARTICLES COMPRISING CARBOHYDRATE BEADS COVALENTLY LINKED WITH ALLERGEN</div>   |  |   |  |  |  |
| APPLICANT(S) FOR DO/EO/US<br><div style="text-align: center; font-weight: bold;">Hans GROENLUND, Johan ROENNELID, Alex KARLSSON-PARRA, Marianne VAN HAGEN-HAMSTEN,<br/>         Rudolf VALENTA, Susanne VRTALA, Ursula WIEDERMANN, and Dietrich KRAFT</div>  |  |   |  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau).</li> <li>b. <input type="checkbox"/> had been communicated by the International Bureau.</li> <li>c. <input checked="" type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |   |  |  |  |
| <b>Items 11 to 20. below concern document(s) or information included:</b>  |  |   |  |  |  |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included</li> <li>13. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>14. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4)</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: Application Data Sheet, Forms: PCT/ISA/210, PCT/IPEA/416, PCT/IPEA/409, PCT/IB/306</li> </ol>   |  |   |  |  |  |

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| U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.7)<br><b>10/510655</b>  |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/EP03/04103</b> |  | ATTORNEY'S DOCKET NUMBER<br><b>24741-1536</b> |    |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:<br><b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1)-(5)):</b><br><br>Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO..... \$1110.00<br><br>International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO..... \$950.00<br><br>International preliminary examination fee (37 CFR 1.482) not paid to USPTO but<br>international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$790.00<br><br>International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... \$750.00<br><br>International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>and all claims satisfied provisions of PCT Article 33(1)-(4)..... \$100.00<br><br><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b> |              |  |  | <b>CALCULATIONS PTO USE ONLY</b>              |    |
|  |              |  |  |   |    |
| Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(e)).   |              |  |  | \$  |    |
| CLAIMS   | NUMBER FILED | NUMBER EXTRA   | RATE                                     |   |    |
| Total claims   | 24-20 =      | 4  | x \$ 18.00                               | \$ 72.00                                      |    |
| Independent claims   | 1-3 =        | 0  | x \$ 88.00                               | \$  |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |              |  | + \$300.00                               | \$ 300.00                                     |    |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |              |  |  | \$ 1,322.00                                   |    |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above<br>are reduced by 1/2.   |              |  |  | \$ 661.00                                     |    |
| <b>SUBTOTAL =</b>  |              |  |  | \$ 661.00                                     |    |
| Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |  |  | \$  |    |
| <b>TOTAL NATIONAL FEE =</b>  |              |  |  | \$ 661.00                                     |    |
| Fee for recording the enclose assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +   |              |  |  | \$  |    |
| <b>TOTAL FEES ENCLOSED =</b>   |              |  |  | \$ 661.00                                     |    |
|  |              |  |  | <b>Amount to be refunded:</b>                 | \$ |
|  |              |  |  | <b>charged:</b>                               | \$ |
| a. <input checked="" type="checkbox"/> A check in the amount of \$ 661.00 To cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. 08-1641 In the amount of \$ To cover the above fees.<br>A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment<br>To Deposit Account No. 08-1641 A duplicate copy of this sheet is enclosed.   |              |  |  |   |    |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b))<br/>         must be filed and granted to restore the application to pending status.</b>  |              |  |  |   |    |
| <b>SEND ALL CORRESPONDENCE TO:</b><br>Patricia D. Granados<br>HELLER EHRMAN WHITE & MCAULIFFE<br>1666 K Street, N.W., Suite 300<br>Washington, DC 20006<br>Phone: (202) 912-2000<br>Fax: (202) 912-2020  |              |  |  |   |    |
|  |              |  | SIGNATURE<br><i>Patricia D. Granados</i> | Date<br><i>10/18/04</i>                       |    |
|  |              |  | NAME<br><b>Patricia D. Granados</b>      |   |    |
|  |              |  | REGISTRATION NUMBER<br><b>33,683</b>     |   |    |
|  |              |  | Customer No. 26633                       |   |    |